

SEQUENCE LISTING

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Von Der Kammer, Heinz

<120> DIAGNOSTIC AND THERAPEUTIC USE OF A RAB FAMILY
GTP-BINDING PROTEIN FOR NEURODEGENERATIVE DISEASES

<130> 2335.0030001

<150> PCT/EP2003/007361

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<150> EP 02015429.0

<151> 2002-07-11

<150> 60/394,870

<151> 2002-07-11

<160> 15

<170> PatentIn Ver. 2.1

<210> 1

<211> 194

<212> PRT

<213> Homo sapiens

<400> 1

Met Ala Ile Arg Glu Leu Lys Val Cys Leu Leu Gly Asp Thr Gly Val
1 5 10 15

Gly Lys Ser Ser Ile Val Cys Arg Phe Val Gln Asp His Phe Asp His
20 25 30

Asn Ile Ser Pro Thr Ile Gly Ala Ser Phe Met Thr Lys Thr Val Pro
35 40 45

Cys Gly Asn Glu Leu His Lys Phe Leu Ile Trp Asp Thr Ala Gly Gln
50 55 60

Glu Arg Phe His Ser Leu Ala Pro Met Tyr Tyr Arg Gly Ser Ala Ala
65 70 75 80

Ala Val Ile Val Tyr Asp Ile Thr Lys Gln Asp Ser Phe Tyr Thr Leu
85 90 95

Lys Lys Trp Val Lys Glu Leu Lys Glu His Gly Pro Glu Asn Ile Val
100 105 110

Met Ala Ile Ala Gly Asn Lys Cys Asp Leu Ser Asp Ile Arg Glu Val
115 120 125

Pro Leu Lys Asp Ala Lys Glu Tyr Ala Glu Ser Ile Gly Ala Ile Val
130 135 140

Val Glu Thr Ser Ala Lys Asn Ala Ile Asn Ile Glu Glu Leu Phe Gln
145 150 155 160

Gly Ile Ser Arg Gln Ile Pro Pro Leu Asp Pro His Glu Asn Gly Asn
165 170 175

Asn Gly Thr Ile Lys Val Glu Lys Pro Thr Met Gln Ala Ser Arg Arg

180

185

190

Cys Cys

<210> 2
<211> 585
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: complete cDNA
of RAB 31 gene

<400> 2
atggcgatac gggagctcaa agtgtgcctt ctcggggaca ctgggggttg gaaatcaagc 60
atcgtgtgtc gatttgtcca ggatcacttt gaccacaaca tcagccctac tattggggca 120
tcttttatga ccaaaactgt gccttgtgga aatgaacttc acaagttcct catctgggac 180
actgctggtc aggaacgggt tcattcattg gctcccatgt actatcgagg ctcagctgca 240
gctgttatcg tgtatgatat taccaagcag gattcatttt ataccttgaa gaaatgggtc 300
aaggagctga aagaacatgg tccagaaaac attgtaatgg ccacgctgg aaacaagtgc 360
gacctctcag atattaggga ggttcccctg aaggatgcta aggaatacgc tgaatccata 420
ggtgccatcg tggttgagac aagtgcacaaa aatgctatta atatcgaaga gctctttcaa 480
ggaatcagcc gccagatccc acccttggac ccccatgaaa atggaaacaa tggaacaatc 540
aaagttgaga agccaacat gcaagccagc cgccggtgct gttga 585

<210> 3
<211> 212
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: cDNA fragment
of RAB31 gene

<400> 3
accgtggacc acggcccttg ggtcaacagc accggcggct ggcttgcatt gttggcttct 60
caactttgat tgttcattg tttccacttt catgggggtc caagggtggg atctggcggc 120
tgattccttg aaagagctct tcgatattaa tagcattttt tgcacttgtc tcaaccacga 180
tggcacctat ggattcagcg tattccttag ca 212

<210> 4
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
RAB31 gene

<400> 4
actgctgaag gaccctacgc 20

<210> 5
<211> 20
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for
RAB31 gene

<400> 5
gatgcaaagc cagtgtgctc 20

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
cyclophilin B gene

<400> 6
actgaagcac tacgggcctg 20

<210> 7
<211> 19
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<223> Description of Artificial Sequence: Primer for
cyclophilin B gene

<400> 7
agccgttggt gtctttgcc 19

<210> 8
<211> 20
<212> DNA
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<220>
<223> Description of Artificial Sequence: Primer for
ribosomal protein S9 gene

<400> 8
ggtcaaattt accctggcca 20

<210> 9
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
ribosomal protein S9 gene

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tctcatcaag cgtcagcagt tc 22

<210> 10
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for
beta-actin gene

<400> 10
tggaacggtg aaggtgaca 19

<210> 11
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<223> Description of Artificial Sequence: Primer for
beta-actin gene

<400> 11
ggcaagggac ttcctgtaa 19

<210> 12
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<223> Description of Artificial Sequence: Primer for the
GAPDH gene

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cgtcatgggt gtgaaccatg 20

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for the
GAPDH gene

<400> 13
gctaagcagt tgggtggtgca g 21

<210> 14
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer for the
transferrin receptor gene

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gtcgctggtc agttcgtgat t 21

<210> 15
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<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer for the
transferrin receptor gene

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agcagttggc tgttgtacct ctc

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